

4/28/2005
Redeye Watershed
CSP Enhancement Payment List for FY 2005 Signup

Enhancement Type	Enhancement	Unit	Cost per Unit (\$)
Enhancement - Energy Management	Energy Audit	Each	500
	Recycling of all used motor oil for tractors and lubricating oil for other farm equipment such as irrigation pumps or grain drying motors	Year	200
	Use of perennial legumes in the crop rotation to reduce energy need for production of nitrogen	Acre	0.70
	Use of annual legumes in the crop rotation to reduce energy need for production of nitrogen	Acre	0.10
	Use of manure to supply at least 90% of nutrient needs of plants	Acre	1.10
	Soil Tillage Intensity Rating (STIR) is less than 60	Acre	0.50
	Soil Tillage Intensity Rating (STIR) is less than 30	Acre	0.70
	Soil Tillage Intensity Rating (STIR) is less than 15	Acre	0.90
	Use of renewable energy fuel (Biodiesel or Ethanol). Payments are made in \$25 increments for each 100 gallons <u>actual</u> biofuel used per year.	100 gal	25
	Renewable energy generation (solar, wind, water, geothermal, methane).	100 KWh	2.50
	5% energy reduction - Total BTU's	BTUs	100
	10% energy reduction - Total BTU's	BTUs	200
	20% energy reduction - Total BTU's	BTUs	500
Enhancement - Grazing Management	Collect and use records of weights, dates of grazing individual paddocks, beginning forage heights, and residual stubble heights to better manage forage	Acre	2.00
	Manage over wintering plan to eliminate livestock concentration concerns, prevent erosion, protect water quality, and improve forage quality	Year	1500.00
	Utilize a livestock/forage management plan for entire year, as opposed to just the grazing season, to better utilize forage	Year	500.00
	Limit access to all livestock ponds and watering areas to protect water quality and improve livestock performance	Year	300.00
	Rotate all feeding and salting areas to better utilize forage quality	Year	300.00
	Manage pastures to promote species diversification and improve forage quality	Acre	5.00

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Enhancement - Habitat Management	Time haying/livestock grazing to avoid period (5/1 to 7/1) when wildlife are nesting, fawning, etc. & to allow for the establishment of residual cover for wildlife	Acre	320.00
	Leave hayfield strip $\geq 100'$ uncut to provide habitat for wildlife including native pollinators (minimum of 10% each field)	Acre	320.00
	Enhance wildlife habitat by converting existing non-beneficial (non-pasture) grass areas to native grass/forb species.	Acre	20.00
	Improve utilization of buffer practices by wildlife by increasing width of existing buffer strips by a minimum 50'.	Acre	43.00
	Enhance wildlife habitat by reducing snow deposition into existing shelterbelts (see Job Sheet)	Acre	43.00
	Encourage use of nest structures and brush piles for habitat for cavity nesting birds, mammals & herptiles. (acres where there is a least one nesting structure)	Acre	10.00
	Use a flushing bar when harvesting forages to allow the exit of wildlife from the path of harvest equipment	Acre	5.00
	Enhance winter wildlife food through no fall tillage residue management.	Acre	5.00
Enhancement - Nutrient Management	Implement a Nutrient Management Enhancement Component	Acre	3.00
	Implement two (2) Nutrient Management Enhancement Components	Acre	6.00
	Implement three (3) Nutrient Management Enhancement Components	Acre	9.00
	Implement four (4) Nutrient Management Enhancement Components	Acre	12.00
	Implement five (5) Nutrient Management Enhancement Components	Acre	15.00
	Base manure app rates on P on all enrolled fields bordering perm streams, lakes, & type 3-8 wetlands to better utilize nutrients & address water quality concerns	Acre	3.00
	Soil sampling that represents an area no larger than 20 acres on large, uniform fields or 5 acres or less on hilly or rolling ground to better utilize nutrients and address water quality concerns	Acre	0.30
	The operator analyzes manure at least annually for nutrient content and applies manure with a calibrated applicator to better utilize fertilizer and address water quality concerns	Acre	0.50
	Manage filter strips on all fields bordering permanent streams, lakes, and type 3-8 wetlands to filter potential nutrient runoff	Acre	3.00

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Enhancement - Pest Management	Implement a pest management enhancement component	Acre	3.00
	Implement two (2) pest management enhancement components	Acre	6.00
	Implement three (3) pest management enhancement components	Acre	9.00
	Implement four (4) pest management enhancement components	Acre	12.00
	Implement five (5) pest management enhancement components	Acre	15.00
Enhancement – Soil Management	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.1.	Acre	1.16
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.2.	Acre	2.32
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.3.	Acre	3.48
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.4.	Acre	4.64
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.5.	Acre	5.80
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.6.	Acre	6.96
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.7.	Acre	8.12
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.8.	Acre	9.28
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.9.	Acre	10.44

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	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.0.	Acre	11.60
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.1.	Acre	12.76
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.2.	Acre	13.92
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.3.	Acre	15.08
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.4.	Acre	16.24
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.5.	Acre	17.40
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.6.	Acre	18.56
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.7.	Acre	19.72
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.8.	Acre	20.88
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 1.9.	Acre	22.04
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.0.	Acre	23.20
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.1.	Acre	24.36
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.2.	Acre	25.52

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	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.3.	Acre	26.68
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.4.	Acre	27.84
	Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 2.5 or greater.	Acre	29.00
	Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60	Acre	0.50
	Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30	Acre	1.00
	Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less	Acre	2.00
	Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a STIR between 31 & 60	Acre	1.00
	Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a STIR between 16 and 30	Acre	2.00
	Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a STIR of 15 or less	Acre	4.00
Enhancement – Water Management	Irrigation Enhancement Index Level 1 - 60 - 64%.	Acre	2.00
	Irrigation Enhancement Index Level 2 - 65 - 69%.	Acre	4.00
	Irrigation Enhancement Index Level 3 - 70 - 74%.	Acre	6.00
	Irrigation Enhancement Index Level 4 - 75 - 79%.	Acre	8.00
	Irrigation Enhancement Index Level 5 - 80 - 84%.	Acre	10.00
	Irrigation Enhancement Index Level 6 - 85% or greater.	Acre	12.00

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Enhancement – Air Resource Management	Improve air quality by controlling concentrated animal odors through the use of bio-filters for enclosed barns	Year	800.00
	Improve air quality by controlling concentrated animal odors through the use of bio-filters for curtained barns	Year	400.00
	Encourage the use of a waste facility cover for odor control	Year	400.00
	Improve air quality by managing shelterbelt(s) adjacent to feedlot and/or waste holding areas by controlling odors and dusts	Ac	43.00
	Improve air quality by managing field windbreaks to control dust and pesticide drift	Ac	43.00
	Encourage the use of cross wind trap strips to control dust and pesticide drifts	Ac	10.00

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Appendix 1

Enhancement Components for Nutrient Management Enhancement Bundles

Band or row apply all commercial P ₂ O ₅ fertilizer to better utilize nutrients and address water quality concerns
Inject or incorporate all manure applications within 24 hours to decrease the potential for manure loss to runoff
Apply all commercial nitrogen fertilizer in spring and/or after planting and incorporates within 24 hours to better utilize nutrients and address water quality concerns
Apply commercial N and P fertilizer and/or manure at rates less than or equal to UMN fertilizer recommendations to better utilize nutrients and address water quality concerns
Use a Nitrogen Inhibitor with commercial N fertilizer on labeled crops (primarily corn) to better utilize nutrients and address water quality concerns

Enhancement Components for Pest Management Enhancement Bundles

Band apply, split apply, spot apply or variable rate apply pesticides to protect water quality
Utilize one or more non-chemical controls as the primary methods of weed control to protect water quality
Improve pest management by applying approved products according to USDA organic farming requirements
Utilizing crop rotations with small grains and/or hay to protect water quality
Scout fields to determine pest and infestation levels and need for pest control to target pesticide applications and to protect water quality